10/522,365

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	7	glycoserine	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/23 15:14
L2	1	glycothreonine	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/23 15:11
L3	0	(glycoserine NEAR difluoro)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/23 15:14
L4	0	(glycoserine NEAR fluoro)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/23 15:14
L5	0	(glycothreonine NEAR difluoro)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/23 15:15
L6	0	(glycothreonine NEAR fluoro)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/23 15:25
L7	2747	514/23	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/23 15:37
L8	607	l7 and (glucos or galactose)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/23 15:38
L9	11	l8 and difluoro	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/23 15:38
L10	1665	l7 and (glucose or galactose)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/23 15:41
L11	40	l10 and difluoro	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/23 15:39

EAST Search History

L12	42	l10 and $difluoro	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/23 15:42
L13	0	l10 and (gem NEAR difluoro)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/23 15:42
L14	644	536/1.11	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/23 15:41
L15	428	l14 and (glucose or galactose)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/23 15:41
L16	0	l15 and (gem NEAR difluoro)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/23 15:42
L17	5	l15 and $difluoro	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/23 15:43

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=> dis hist

     (FILE 'HOME' ENTERED AT 14:10:19 ON 23 JAN 2007)

     FILE 'REGISTRY' ENTERED AT 14:10:37 ON 23 JAN 2007
L1             STRUCTURE UPLOADED
L2          1387 S L1 SSS FULL

     FILE 'CAPLUS' ENTERED AT 14:11:26 ON 23 JAN 2007
L3             2 S L2 AND (GEM(A)DIFLUORO)
L4             1 S L2 AND (GEM(A)DIFLUOROMETHYLENE)
L5             7 S L2 AND (GLUCOSE OR GALACTOSE)
L6            99 S QUIRION JEAN-CHARLES/AU
L7             7 S L6 AND (FLUORO OR DIFLUORO)
L8             0 S PANECOUCKE XAVIER/AU
L9             0 S HIIGE FRANCOIS/AU
L10            0 S HOOGE FRANCOIS/AU
L11            5 S MARCOTTE STEPHANE/AU
L12            0 S GODEFROY-DELIENCOURT-CASTELOT GERALDINE/AU
L13           21 S JUBAULT PHILIPPE/AU
L14            5 S L13 AND (FLUORO OR DIFLUORO)
L15            2 S GOUGE VANESSA/AU
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PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS	6	NOV 10	CA/CAplus F-Term thesaurus enhanced
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NEWS	8	NOV 20	CAS Registry Number crossover limit increased to 300,000 in additional databases
NEWS	9	NOV 20	CA/CAplus to MARPAT accession number crossover limit increased to 50,000
NEWS	10	DEC 01	CAS REGISTRY updated with new ambiguity codes
NEWS	11	DEC 11	CAS REGISTRY chemical nomenclature enhanced
NEWS	12	DEC 14	WPIDS/WPINDEX/WPIX manual codes updated
NEWS	13	DEC 14	GBFULL and FRFULL enhanced with IPC 8 features and functionality
NEWS	14	DEC 18	CA/CAplus pre-1967 chemical substance index entries enhanced with preparation role
NEWS	15	DEC 18	CA/CAplus patent kind codes updated
NEWS	16	DEC 18	MARPAT to CA/CAplus accession number crossover limit increased to 50,000
NEWS	17	DEC 18	MEDLINE updated in preparation for 2007 reload
NEWS	18	DEC 27	CA/CAplus enhanced with more pre-1907 records
NEWS	19	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS	20	JAN 16	CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS	21	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS	22	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS	23	JAN 22	CA/CAplus updated with revised CAS roles
NEWS	24	JAN 22	CA/CAplus enhanced with patent applications from India

NEWS EXPRESS	NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
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FILE 'HOME' ENTERED AT 14:10:19 ON 23 JAN 2007

=> file reg
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 14:10:37 ON 23 JAN 2007
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DICTIONARY FILE UPDATES: 22 JAN 2007 HIGHEST RN 918106-10-2

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http://www.cas.org/ONLINE/UG/regprops.html

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Uploading C:\Program Files\Stnexp\Queries\10522365.str

L1 STRUCTURE UPLOADED

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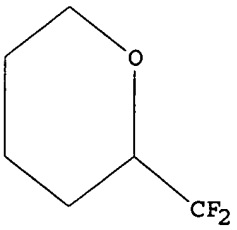
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss full
FULL SEARCH INITIATED 14:11:20 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 20230 TO ITERATE

100.0% PROCESSED 20230 ITERATIONS 1387 ANSWERS
SEARCH TIME: 00.00.01

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L2          1387 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                       172.10     172.31

FILE 'CAPLUS' ENTERED AT 14:11:26 ON 23 JAN 2007
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FILE COVERS 1907 - 23 Jan 2007  VOL 146 ISS 5
FILE LAST UPDATED: 22 Jan 2007  (20070122/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

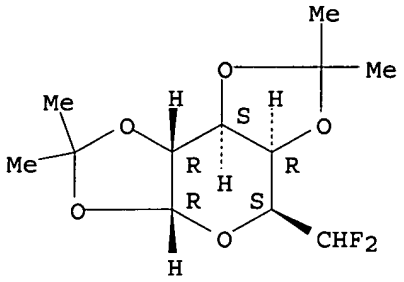
=> s l2 and (gem(a)difluoro)
           447 L2
          7946 GEM
          1962 GEMS
          9120 GEM
                 (GEM OR GEMS)
         14434 DIFLUORO
           122 GEM(A)DIFLUORO
L3           2 L2 AND (GEM(A)DIFLUORO)

=> dis l3 1-2 bib abs hitstr

L3   ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2007 ACS on STN
AN   1988:631384  CAPLUS
DN   109:231384
TI   Analogs of cell surface carbohydrates.  Synthesis of D-galacto derivatives
     having an ethynyl, vinyl or epoxy residue at C-5
AU   Lee, Ho H.; Hodgson, Philip G.; Bernacki, Ralph J.; Korytnyk, Walter;
     Sharma, Moheswar
CS   Dep. Exp. Ther., Roswell Park Mem. Inst., Buffalo, NY, 14263, USA
SO   Carbohydrate Research (1988), 176(1), 59-72
     CODEN: CRBRAT; ISSN: 0008-6215
DT   Journal
LA   English
OS   CASREACT 109:231384
AB   Compds. derived from D-galactose having an ethynyl, vinyl, or epoxide
     residue at C-5, as well as 7,7-dibromo olefinic, isomeric
     7,7-gem-bromofluoro olefinic, and 6,6-gem-difluoro
     derivs. were obtained from 1,2:3,4-di-O-isopropylidene-α-D-galacto-
     hexodialdo-1,5-pyranose.  The D-galactose analogs prepared showed only
     marginal inhibiting activity against L1210 leukemia cells.
IT   65820-95-3P
```

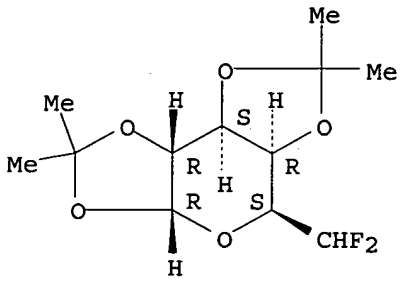
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and deisopropylidenation of)
RN 65820-95-3 CAPLUS
CN α-D-Galactopyranose, 6-deoxy-6,6-difluoro-1,2:3,4-bis-O-(1-methylethylidene)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1978:105663 CAPLUS
DN 88:105663
TI Synthesis of gem-difluorosaccharides
AU Sharma, R. A.; Kavai, I.; Fu, Y. L.; Bobek, M.
CS Dep. Exp. Ther., Roswell Park Mem. Inst., Buffalo, NY, USA
SO Tetrahedron Letters (1977), (39), 3433-6
CODEN: TELEAY; ISSN: 0040-4039
DT Journal
LA English
AB Gem-difluorosaccharides were prepared (25-46%) by fluorination (Et2NSF3) of the carbonyl oxygen of isopropylidene protected sugars and glucosides. E.g. 1,2:3,4-di-O-isopropylidene-α-D-galacto-hexadialdo-1,5-pyranose with Et2NSF3 in CH2Cl2 (room temperature, 16 h) gave 46% 6-deoxy-6,6-difluoro-1,2:3,4-di-O-isopropylidene-α-D-galactopyranose. The method is general for sugar aldehydes and ketones in the pyranosyl form.
IT 65820-95-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 65820-95-3 CAPLUS
CN α-D-Galactopyranose, 6-deoxy-6,6-difluoro-1,2:3,4-bis-O-(1-methylethylidene)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> s l2 and (gem(a)difluoromethylene)
447 L2
7946 GEM
1962 GEMS

```
          9120 GEM
                 (GEM OR GEMS)
          1012 DIFLUOROMETHYLENE
             5 DIFLUOROMETHYLENES
          1016 DIFLUOROMETHYLENE
                 (DIFLUOROMETHYLENE OR DIFLUOROMETHYLENES)
            19 GEM(A)DIFLUOROMETHYLENE
L4           1 L2 AND (GEM(A)DIFLUOROMETHYLENE)

=> dis l4 bib abs hitstr

L4   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2007 ACS on STN
AN   2001:557694  CAPLUS
DN   135:344640
TI   Synthesis of new α- and β-  gem-
     difluoromethylene C-glycosides in the galactose and glucose series
AU   Marcotte, S.; D'Hooge, F.; Ramadas, S.; Feasson, C.; Pannecoucke, X.;
     Quirion, J.-C.
CS   Laboratoire d'Heterochimie Organique, CNRS, IRCOF, INSA et Universite de
     Rouen, Mont Saint-Aignan, 76821, Fr.
SO   Tetrahedron Letters (2001), 42(34), 5879-5882
     CODEN: TELEAY; ISSN: 0040-4039
PB   Elsevier Science Ltd.
DT   Journal
LA   English
OS   CASREACT 135:344640
GI
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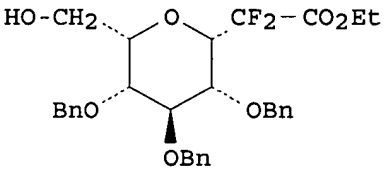


I

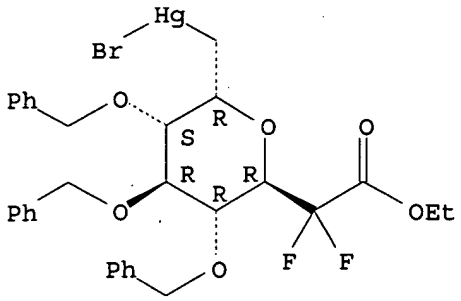
AB A synthesis of gem-difluoromethylene C-glycopyranosides, e.g. I, was efficiently achieved via a Reformatskii reaction on an aldehyde and subsequent intramol. cyclization involving either the opening of an epoxide or an oxymercuration.

IT 371146-27-9P 371146-31-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of new α- and β- gem-difluoromethylene C-glycosides in the galactose and glucose series via Reformatskii reaction and oxymercuration)

RN 371146-27-9 CAPLUS

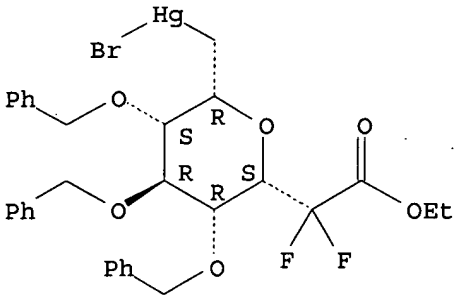
CN L-glycero-D-gulo-Octonic acid, 3,7-anhydro-8-(bromomercurio)-2,8-dideoxy-2,2-difluoro-4,5,6-tris-O-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



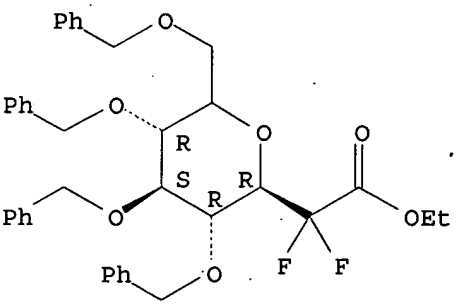
RN 371146-31-5 CAPLUS
CN L-glycero-D-ido-Octonic acid, 3,7-anhydro-8-(bromomercurio)-2,8-dideoxy-2,2-difluoro-4,5,6-tris-O-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



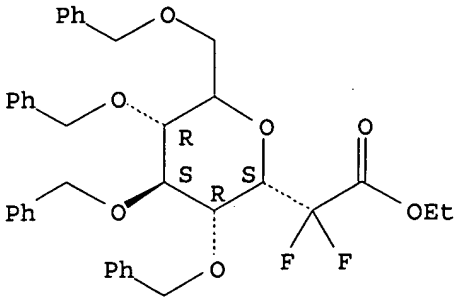
IT 371146-21-3P 371146-24-6P 371146-29-1P
371146-33-7P 371146-47-3P 371146-51-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of new α- and β- gem-difluoromethylene C-glycosides in the galactose and glucose series via Reformatskii reaction and oxymercuration)
RN 371146-21-3 CAPLUS
CN D-gulo-Octonic acid, 3,7-anhydro-2-deoxy-2,2-difluoro-4,5,6,8-tetrakis-O-(phenylmethyl)-, ethyl ester, (7ξ)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



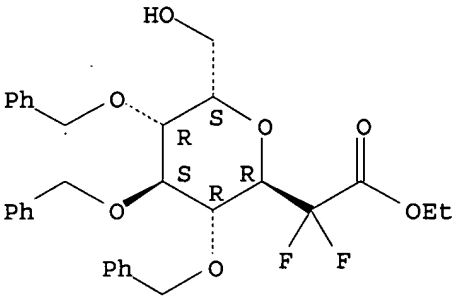
RN 371146-24-6 CAPLUS
CN D-ido-Octonic acid, 3,7-anhydro-2-deoxy-2,2-difluoro-4,5,6,8-tetrakis-O-(phenylmethyl)-, ethyl ester, (7ξ)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



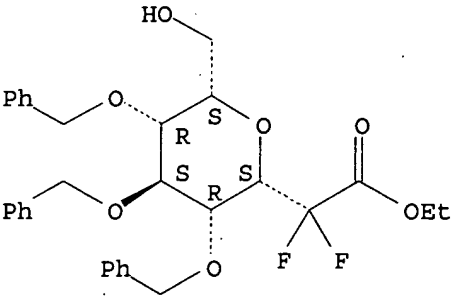
RN 371146-29-1 CAPLUS
CN L-glycero-D-gulo-Octonic acid, 3,7-anhydro-2-deoxy-2,2-difluoro-4,5,6-tris-O-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



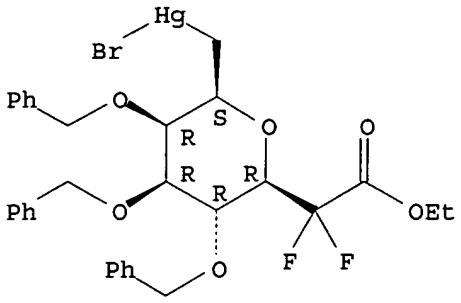
RN 371146-33-7 CAPLUS
CN L-glycero-D-ido-Octonic acid, 3,7-anhydro-2-deoxy-2,2-difluoro-4,5,6-tris-O-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



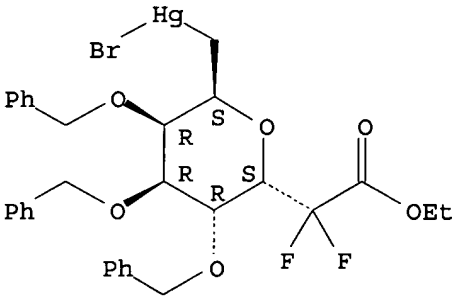
RN 371146-47-3 CAPLUS
CN D-glycero-L-manno-Octonic acid, 3,7-anhydro-8-(bromomercurio)-2,8-dideoxy-2,2-difluoro-4,5,6-tris-O-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 371146-51-9 CAPLUS
CN D-glycero-L-gluco-Octonic acid, 3,7-anhydro-8-(bromomercurio)-2,8-dideoxy-2,2-difluoro-4,5,6-tris-O-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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=> s l2 and (glucose or galactose)
           447 L2
        415640 GLUCOSE
           818 GLUCOSES
        415817 GLUCOSE
                  (GLUCOSE OR GLUCOSES)
         56728 GALACTOSE
           194 GALACTOSES
         56789 GALACTOSE
                  (GALACTOSE OR GALACTOSES)
L5           7 L2 AND (GLUCOSE OR GALACTOSE)

=> dis l5 1-7 bib abs hitstr

L5   ANSWER 1 OF 7  CAPLUS  COPYRIGHT 2007 ACS on STN
AN   2002:695680  CAPLUS
DN   137:228094
TI   Termiticidal baits for eliminating termite colonies
IN   Brode, Philip Frederick, III; Garrett, Garry Steven; Laughlin, Leo
     Timothy; Matthews, Randall Stryker; Barker, Dale Edwin; Kinne, Daniel
     James; Miller, Christopher Miles; Probst, Timothy Robert; McKibben, Gary
     Eugene
PA   The Procter & Gamble Company, USA
SO   PCT Int. Appl., 61 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
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FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002069704	A2	20020912	WO 2002-US6200	20020301
	WO 2002069704	A3	20021114		
	WO 2002069704	A8	20031231		
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	US 2002172658	A1	20021121	US 2001-799184	20010305
	US 6716421	B2	20040406		
	US 2003017187	A1	20030123	US 2002-172855	20020617
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	US 2003124166	A1	20030703	US 2002-173527	20020617
	US 6964124	B2	20051115		
	US 2003124164	A1	20030703	US 2002-268356	20021010
	US 6969512	B2	20051129		
	WO 2003105580	A1	20031224	WO 2003-US17713	20030605
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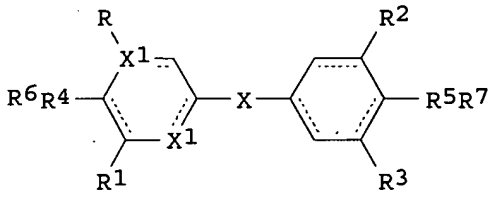
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	WO 2003106395	A1	20031224	WO 2003-US17714	20030605
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003237401	A1	20031231	AU 2003-237401	20030605
	AU 2003243404	A1	20031231	AU 2003-243404	20030605
	WO 2004032625	A2	20040422	WO 2003-US32092	20031007
	WO 2004032625	A3	20040910		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003279221	A1	20040504	AU 2003-279221	20031007
	US 2004170661	A1	20040902	US 2004-770195	20040202
	US 7157078	B2	20070102		
PRAI	US 2001-799184	A	20010305		

	US 2002-172855	A	20020617
	US 2002-173527	A	20020617
	US 2002-268356	A	20021010
	WO 2003-US17713	W	20030605
	WO 2003-US17714	W	20030605
	WO 2003-US32092	W	20031007

OS MARPAT 137:228094

GI



I

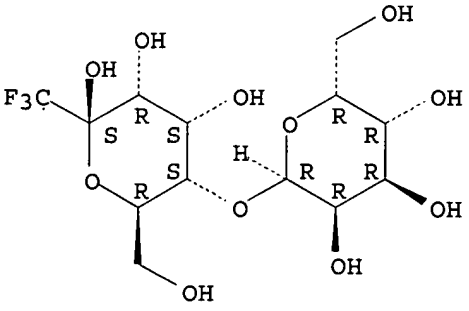
AB This invention relates to devices, kits, and methods for eliminating termite colonies. The kits, devices, and methods employ a termiticidal bait matrix contain (a) a termiticide (I, X = nil, a hydrocarbon group, O or NR8,R9 where R8 and R9 are H or a hydrocarbon group; X1 = CH, a carbon atom or a heteroatom; R,R1,R2,R3 = H or OH and if R4 and R5 are O and R6 and R7 are H then R,R1,R2 and R3 may be C1-6; R4 and R5 are H, O or N; R9 and R10 are nil, C1-6, and amides) selected such that the termiticide causes death to about 50 to about 100% of termites within about 24 to about 84 days after the termites begin to ingest the termiticide or the bait matrix comprising the termiticide, (b) a cellulose containing material, and (c) water. The termiticidal bait matrix can be used in a bait station installed in the ground. The kits are suitable to be used by consumers in their homes.

IT 457066-50-1
RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(cellulase inhibitor in termiticidal baits for eliminating termite colonies)

RN 457066-50-1 CAPLUS

CN β-D-allo-2-Heptulopyranose, 1-deoxy-1,1,1-trifluoro-5-O-α-D-gulopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

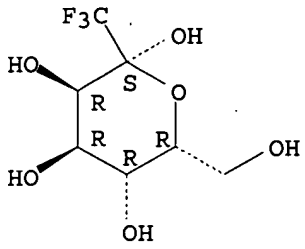


IT 457066-49-8P
RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(cellulase inhibitor in termiticidal baits for eliminating termite colonies)

RN 457066-49-8 CAPLUS

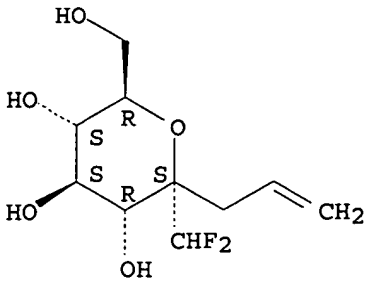
CN β-D-gulo-2-Heptulopyranose, 1-deoxy-1,1,1-trifluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



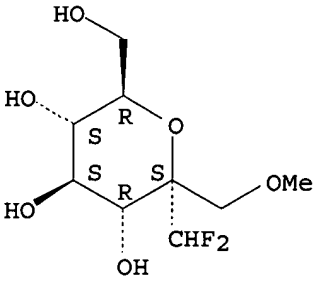
L5 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2001:783580 CAPLUS
DN 136:128995
TI Evaluation of designed ligands by a multiple screening method: application to glycogen phosphorylase inhibitors constructed with a variety of approaches
AU So, Sung-Sau; Karplus, Martin
CS Department of Chemistry and Chemical Biology, Harvard University, Cambridge, MA, 02138, USA
SO Journal of Computer-Aided Molecular Design (2001), 15(7), 613-647
CODEN: JCADEQ; ISSN: 0920-654X
PB Kluwer Academic Publishers
DT Journal
LA English
AB Glycogen phosphorylase (GP) is an important enzyme that regulates blood glucose level and a key therapeutic target for the treatment of type II diabetes. In this study, a number of potential GP inhibitors are designed with a variety of computational approaches. They include the applications of MCSS, LUDI and CoMFA to identify addnl. fragments that can be attached to existing lead mols.; the use of 2D and 3D similarity-based QSAR models (HQSAR and SMGNN) and of the LUDI program to identify novel mols. that may bind to the glucose binding site. The designed ligands are evaluated by a multiple screening method, which is a combination of com. and inhouse ligand-receptor binding affinity prediction programs used in a previous study. Each method is used at an appropriate point in the screening, as determined by both the accuracy of the calcns. and the computational cost. A comparison of the strengths and weaknesses of the ligand design approaches is made.
IT 391870-79-4 391870-81-8 391870-83-0
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(evaluation of designed ligands by a multiple screening method and application to glycogen phosphorylase inhibitors constructed with a variety of approaches)
RN 391870-79-4 CAPLUS
CN D-glycero-D-gulo-Non-1-enitol, 4,8-anhydro-1,2,3-trideoxy-4-C-(difluoromethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



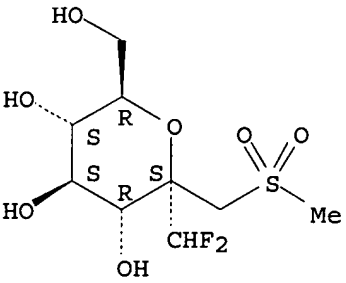
RN 391870-81-8 CAPLUS
CN D-glycero-D-gulo-Heptitol, 2,6-anhydro-2-C-(difluoromethyl)-1-O-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 391870-83-0 CAPLUS
CN D-glycero-D-gulo-Heptitol, 2,6-anhydro-1-deoxy-2-C-(difluoromethyl)-1-(methylsulfonyl)- (9CI) (CA INDEX NAME)

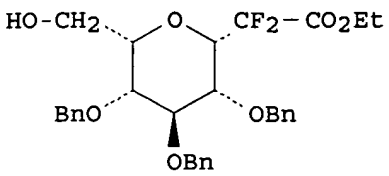
Absolute stereochemistry.



RE.CNT 71 THERE ARE 71 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2001:557694 CAPLUS
DN 135:344640
TI Synthesis of new α- and β-gem-difluoromethylene C-glycosides in the galactose and glucose series
AU Marcotte, S.; D'Hooge, F.; Ramadas, S.; Feasson, C.; Pannecoucke, X.; Quirion, J.-C.
CS Laboratoire d'Heterochimie Organique, CNRS, IRCOF, INSA et Universite de Rouen, Mont Saint-Aignan, 76821, Fr.
SO Tetrahedron Letters (2001), 42(34), 5879-5882
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science Ltd.
DT Journal

LA English
OS CASREACT 135:344640
GI



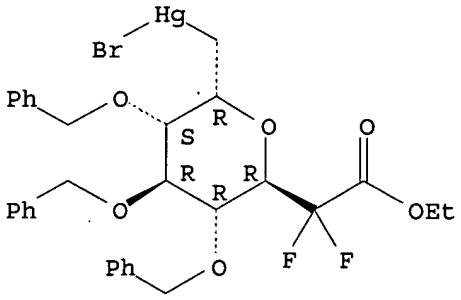
I

AB A synthesis of gem-difluoromethylene C-glycopyranosides, e.g. I, was efficiently achieved via a Reformatskii reaction on an aldehyde and subsequent intramol. cyclization involving either the opening of an epoxide or an oxymercuration.

IT 371146-27-9P 371146-31-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of new α- and β-gem-difluoromethylene C-glycosides in the galactose and glucose series via Reformatskii reaction and oxymercuration)

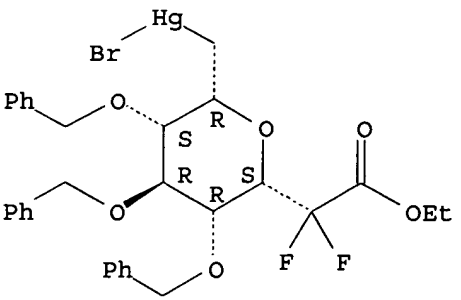
RN 371146-27-9 CAPLUS
CN L-glycero-D-gulo-Octonic acid, 3,7-anhydro-8-(bromomercurio)-2,8-dideoxy-2,2-difluoro-4,5,6-tris-O-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



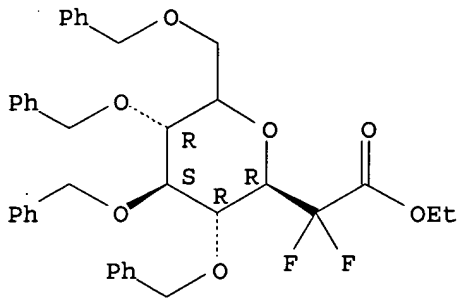
RN 371146-31-5 CAPLUS
CN L-glycero-D-ido-Octonic acid, 3,7-anhydro-8-(bromomercurio)-2,8-dideoxy-2,2-difluoro-4,5,6-tris-O-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



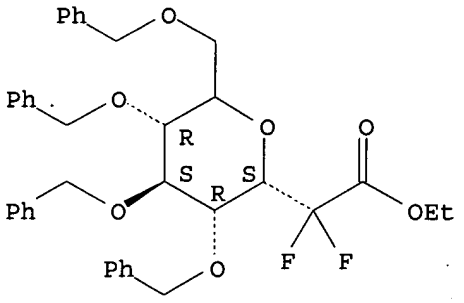
IT 371146-21-3P 371146-24-6P 371146-29-1P
371146-33-7P 371146-47-3P 371146-51-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of new α- and β-gem-difluoromethylene
C-glycosides in the galactose and glucose series
via Reformatskii reaction and oxymercuration)
RN 371146-21-3 CAPLUS
CN D-gulo-Octonic acid, 3,7-anhydro-2-deoxy-2,2-difluoro-4,5,6,8-tetrakis-O-(phenylmethyl)-, ethyl ester, (7ξ)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



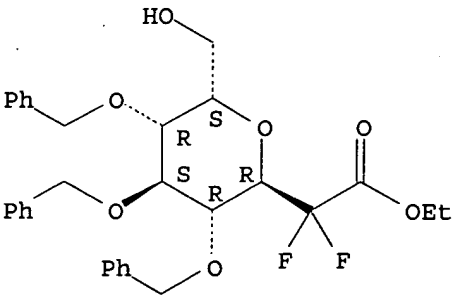
RN 371146-24-6 CAPLUS
CN D-ido-Octonic acid, 3,7-anhydro-2-deoxy-2,2-difluoro-4,5,6,8-tetrakis-O-(phenylmethyl)-, ethyl ester, (7ξ)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 371146-29-1 CAPLUS
CN L-glycero-D-gulo-Octonic acid, 3,7-anhydro-2-deoxy-2,2-difluoro-4,5,6-tris-O-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)

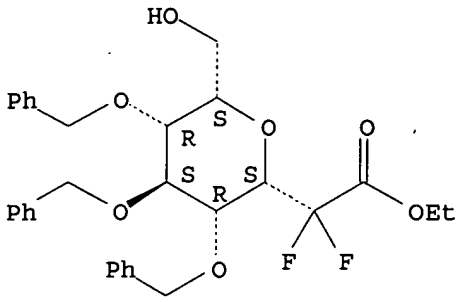
Absolute stereochemistry.



RN 371146-33-7 CAPLUS

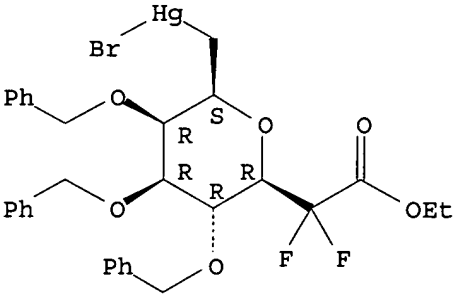
CN L-glycero-D-ido-Octonic acid, 3,7-anhydro-2-deoxy-2,2-difluoro-4,5,6-tris-O-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



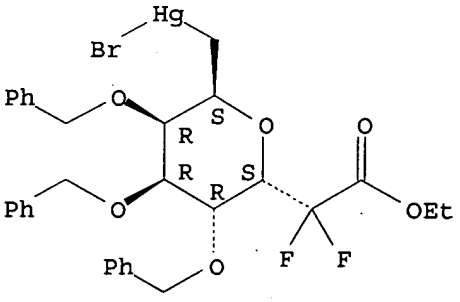
RN 371146-47-3 CAPLUS
CN D-glycero-L-manno-Octonic acid, 3,7-anhydro-8-(bromomercurio)-2,8-dideoxy-2,2-difluoro-4,5,6-tris-O-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 371146-51-9 CAPLUS
CN D-glycero-L-gluco-Octonic acid, 3,7-anhydro-8-(bromomercurio)-2,8-dideoxy-2,2-difluoro-4,5,6-tris-O-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

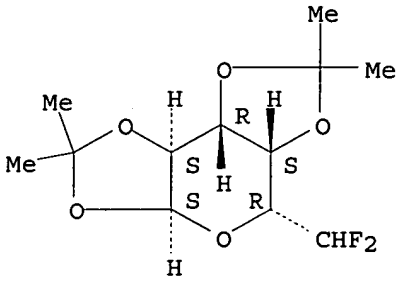


RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2001:455118 CAPLUS
DN 135:227157

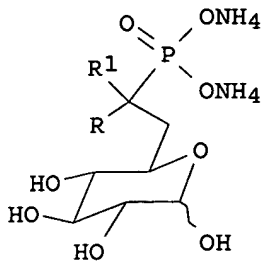
TI Synthesis of (6-2H)- and 6-deoxy-6-fluoro-L-galactose derivatives
AU Brackhagen, Meinolf; Boye, Hanna; Vogel, Christian
CS Department of Chemistry, Division of Organic Chemistry, University of Rostock, Rostock, 18055, Germany
SO Journal of Carbohydrate Chemistry (2001), 20(1), 31-43
CODEN: JCACDM; ISSN: 0732-8303
PB Marcel Dekker, Inc.
DT Journal
LA English
OS CASREACT 135:227157
AB The selective oxidation of trimethylsilylated D-galactose di-Et dithioacetal using Collins reagent provided the corresponding D-galacto-hexodialdo dithioacetal. Successive acid hydrolysis, isopropylidenation, and cleavage of the dithioacetal group gave the 1,2;3,4-di-O-isopropylidene-L-galacto-hexodialdo-1,5-pyranose as a key intermediate for the synthesis of 6-fluoro- and 6-deutero-substituted L-fucose derivs.
IT 70932-51-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of (6-2H)- and 6-deoxy-6-fluoro-L-galactose derivs. via selective oxidn using Collins reagent)
RN 70932-51-3 CAPLUS
CN α-L-Galactopyranose, 6-deoxy-6,6-difluoro-1,2:3,4-bis-O-(1-methylethylidene)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2000:443027 CAPLUS
DN 133:222892
TI α-Fluorinated Phosphonates as Substrate Mimics for Glucose 6-Phosphate Dehydrogenase: the CHF Stereochemistry Matters
AU Berkowitz, David B.; Bose, Mohua; Pfannenstiel, Travis J.; Doukov, Tzanko
CS Department of Chemistry, University of Nebraska, Lincoln, NE, 68588-0304, USA
SO Journal of Organic Chemistry (2000), 65(15), 4498-4508
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 133:222892
GI



I

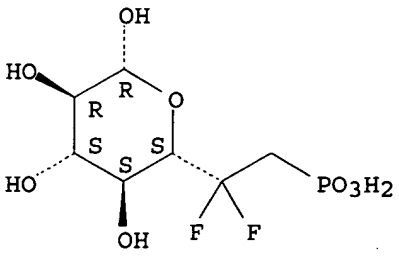
AB Reported is a systematic study of the "fitness" (in terms of kcat/Km) of a series of phosphonate mimics of glucose 6-phosphate (G6P) as unnatural substrates for G6P dehydrogenase from Leuconostoc mesenteroides. The four G6P analogs I (R, R1 = independently H, F) differ only in the degree of fluorination at the "bridging" phosphonate carbon. All have been synthesized from benzyl 6-O-trifluoromethanesulfonyl-2,3,4-tri-O-benzyl β-D-glucopyranoside (II). The phosphonates with bridging CH2 and CF2 groups are cleanly obtained by direct displacements with the appropriate LiX2CP(O)(OEt)2 reagents (X = H, F) in 15 min at -78 °C. For the (α-monofluoro)alkylphosphonates I (R, R1 = H, F), homologation of II is achieved via lithiodithiane-mediated triflate displacement, followed by aldehyde unmasking [CaCO3, Hg(ClO4)2, H2O]. To our knowledge, this is first example of DAST-mediated fluorination of a (nonbenzylic, nonpropargylic) secondary (α-hydroxy)phosphonate and thus establishes the stereochem. course of this transformation. Leuconostoc mesenteroides G6PDH-mediated oxidation and Lineweaver-Burk anal. yields normalized kcat/Km values of 0.043 (bridging-7(R)-CHF), 0.11 (10, bridging-CF2), 0.23 (bridging-CH2), and 0.46 (bridging-7(S)-CHF) relative to G6P itself, largely reflecting differences in Km. The fact that kcat/Km increases by more than an order of magnitude in going from the 7(R)-α-monofluoroalkyl phosphonate (worst substrate) to the 7(S)-diastereomer (best substrate) is especially notable and is discussed in the context of the known phosphate binding pocket of this enzyme as revealed by X-ray crystallog.

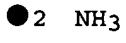
IT 291528-01-3P
RL: BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process)
(fluorinated phosphonates as substrate mimics for glucose phosphate dehydrogenase)

RN 291528-01-3 CAPLUS

CN β-D-gluco-Heptopyranose, 6,7-dideoxy-6,6-difluoro-7-phosphono-, diammonium salt (9CI) (CA INDEX NAME)

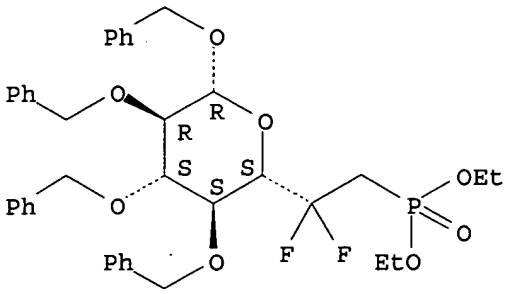
Absolute stereochemistry.





IT 291527-99-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(fluorinated phosphonates as substrate mimics for glucose phosphate dehydrogenase)
RN 291527-99-6 CAPLUS
CN β-D-gluco-Heptopyranoside, phenylmethyl 6,7-dideoxy-7-(diethoxyphosphinyl)-6,6-difluoro-2,3,4-tris-O-(phenylmethyl)- (9CI) (CA INDEX NAME)

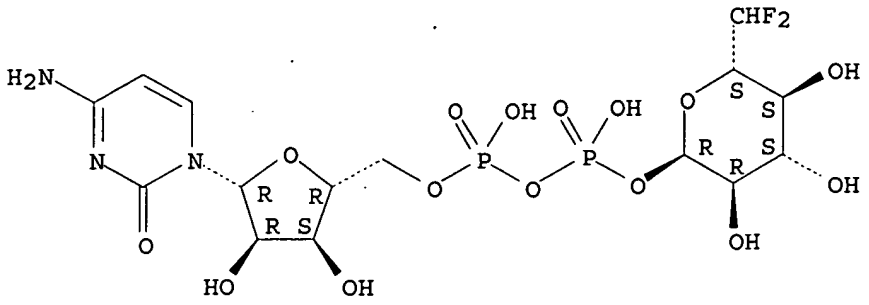
Absolute stereochemistry. Rotation (+).



RE.CNT 94 THERE ARE 94 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1998:569516 CAPLUS
DN 129:299579
TI CDP-6-deoxy-6,6-difluoro-D-glucose: A Mechanism-Based Inhibitor for CDP-D-glucose 4,6-Dehydratase
AU Chang, Cheng-Wei T.; Chen, Xuemei H.; Liu, Hung-wen
CS Department of Chemistry, University of Minnesota, Minneapolis, MN, 55455, USA
SO Journal of the American Chemical Society (1998), 120(37), 9698-9699
CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English
OS CASREACT 129:299579
AB CDP-D-glucose 4,6-dehydratase (Eod), isolated from Yersinia pseudotuberculosis, is a homo-dimeric enzyme that catalyzes the transformation of CDP-D-glucose to CDP-6-deoxy-L-threo-D-glycero-4-hexulose. Reported herein are the synthesis and characterization of a CDP-difluoroglucose derivative, which has been shown to be the first mechanism-based inhibitor for Eod.
IT 214493-10-4P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of CDP-6-deoxy-6,6-difluoro-D-glucose as a mechanism-based inhibitor for CDP-D-glucose 4,6-dehydratase)
RN 214493-10-4 CAPLUS
CN Cytidine 5'-(trihydrogen diphosphate), P'-(6-deoxy-6,6-difluoro-α-D-glucopyranosyl) ester (9CI) (CA INDEX NAME)

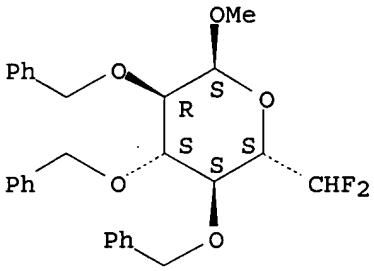
Absolute stereochemistry.



IT 146197-18-4P 214493-07-9P 214493-08-0P
214493-09-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of CDP-6-deoxy-6,6-difluoro-D-glucose as a mechanism-based inhibitor for CDP-D-glucose 4,6-dehydratase)

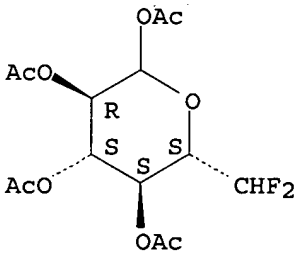
RN 146197-18-4 CAPLUS
CN α-D-Glucopyranoside, methyl 6-deoxy-6,6-difluoro-2,3,4-tris-O-(phenylmethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



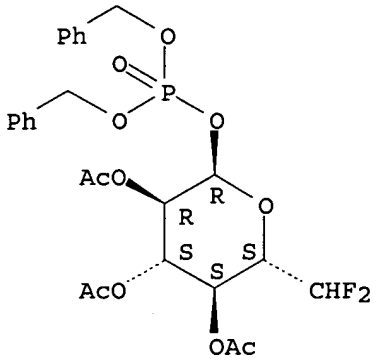
RN 214493-07-9 CAPLUS
CN D-Glucopyranose, 6-deoxy-6,6-difluoro-, tetraacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



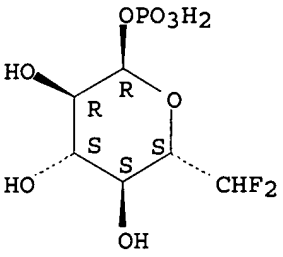
RN 214493-08-0 CAPLUS
CN α-D-Glucopyranose, 6-deoxy-6,6-difluoro-, 2,3,4-triacetate 1-[bis(phenylmethyl) phosphate] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 214493-09-1 CAPLUS
CN α-D-Glucopyranose, 6-deoxy-6,6-difluoro-, 1-(dihydrogen phosphate) (9CI) (CA INDEX NAME)

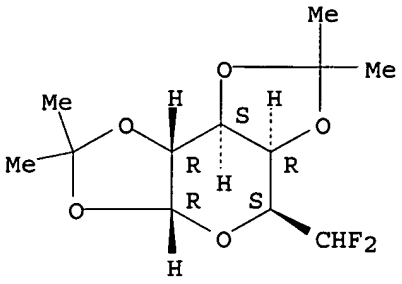
Absolute stereochemistry.



RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1988:631384 CAPLUS
DN 109:231384
TI Analogs of cell surface carbohydrates. Synthesis of D-galacto derivatives having an ethynyl, vinyl or epoxy residue at C-5
AU Lee, Ho H.; Hodgson, Philip G.; Bernacki, Ralph J.; Korytnyk, Walter; Sharma, Moheswar
CS Dep. Exp. Ther., Roswell Park Mem. Inst., Buffalo, NY, 14263, USA
SO Carbohydrate Research (1988), 176(1), 59-72
CODEN: CRBRAT; ISSN: 0008-6215
DT Journal
LA English
OS CASREACT 109:231384
AB Compds. derived from D-galactose having an ethynyl, vinyl, or epoxide residue at C-5, as well as 7,7-dibromo olefinic, isomeric 7,7-gem-bromofluoro olefinic, and 6,6-gem-difluoro derivs. were obtained from 1,2:3,4-di-O-isopropylidene-α-D-galacto-hexodialdo-1,5-pyranose. The D-galactose analogs prepared showed only marginal inhibiting activity against L1210 leukemia cells.
IT 65820-95-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and deisopropylidenation of)
RN 65820-95-3 CAPLUS
CN α-D-Galactopyranose, 6-deoxy-6,6-difluoro-1,2:3,4-bis-O-(1-methylethylidene)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



```
=> s Quirion Jean-Charles/AU
L6          99 QUIRION JEAN-CHARLES/AU

=> s l6 and (fluoro or difluoro)
         97454 FLUORO
             4 FLUOROS
         97457 FLUORO
                 (FLUORO OR FLUOROS)
         14434 DIFLUORO
L7           7 L6 AND (FLUORO OR DIFLUORO)

=> dis l7 1-7 bib abs

L7   ANSWER 1 OF 7  CAPLUS  COPYRIGHT 2007 ACS on STN
AN   2006:1198032  CAPLUS
TI   Efficient synthesis of fluoro alkenes via diethylzinc-promoted
     Wittig reaction
AU   Zoute, Ludivine; Dutheuil, Guillaume; Quirion, Jean-Charles;
     Jubault, Philippe; Pannecoucke, Xavier
CS   IRCOF, LHO, UMR CNRS 6014, Universite et INSA de Rouen, Mont-Saint-Aignan,
     76131, Fr.
SO   Synthesis (2006), (20), 3409-3418
     CODEN: SYNTBF; ISSN: 0039-7881
PB   Georg Thieme Verlag
DT   Journal
LA   English
AB   The synthesis of α-fluoroacrylates and α-bromo α-
     fluoro alkenes was achieved in very good yields using aldehydes
     and ketones, PPh3, ZnEt2 as promoter, and Et dibromofluoroacetate or
     tribromofluoromethane, resp.  A change in the addition sequence was critical in
     order to obtain exclusively α-fluoroacrylates in good yields.
RE.CNT  19    THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7   ANSWER 2 OF 7  CAPLUS  COPYRIGHT 2007 ACS on STN
AN   2006:1048369  CAPLUS
DN   146:81364
TI   Phosphonium supported triphenylphosphine reagent: An improved access to
     α- fluoro α,β-unsaturated esters
AU   Zoute, Ludivine; Lacombe, Celine; Quirion, Jean-Charles;
     Charette, Andre B.; Jubault, Philippe
CS   Laboratoire d'Heterochimie Organique associe au CNRS, IRCOF, INSA et
     Universite de Rouen, Mont Saint-Aignan, 76821, Fr.
SO   Tetrahedron Letters (2006), 47(45), 7931-7933
     CODEN: TELEAY; ISSN: 0040-4039
PB   Elsevier Ltd.
DT   Journal
LA   English
AB   α- Fluoro α,β-unsatd. esters were efficiently
     synthesized via Et2Zn-promoted Wittig reaction using a
```

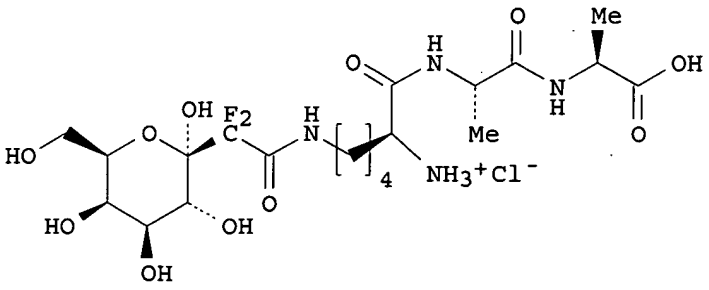
phosphonium-supported solubility-support group SCG-PPh3, 3-Ph2PC6H4PPh3ClO4, which possesses similar reactivity as PPh3. The main advantage of this system is the use of a novel low-mol.-weight support that is soluble in solvents of medium polarities for the attachment of reagents and insol. in solvents of low polarities.

RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2006:538719 CAPLUS
DN 145:46272
TI Preparation of gem-difluorinated C-glycopeptides and their use for the preservation of biological materials and/or in cryosurgery
IN Quirion, Jean-Charles; Castelot-Deliencourt- Godefroy, Geraldine
PA Institut National Des Sciences Appliquees De Rouen, Fr.
SO PCT Int. Appl., 87 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2006059227	A1	20060608	WO 2005-IB3940	20051202
WO 2006059227	B1	20061102		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
FR 2878851	A1	20060609	FR 2004-12782	20041202
PRAI FR 2004-12782	A	20041202		

OS MARPAT 145:46272
GI



I

AB The invention relates to gem-difluorinated C-glycopeptides R4(NHCHR1CONHCHR2CONHCHR3CO)1-5R5 [R4 is H, AA1, AA1-AA2 and R5 is OH, AA1, AA1-AA2, where AA1 and AA2 are independent and represent amino acids with a non-functionalized side chain; R1, R2, R3 are independently H, Me, PhCH2, Me2CH, Me2CHCH2, EtCHMe and one of R1-R3 is 2-tetrahydropyranyl-CF2CONH(CH2)3-4 in which 2-tetrahydropyranyl is substituted by 5-Y, 4-Y' (H, OH, PhCH2O, N3, amino, mercapto, etc.), 6-R6 (H, Me, CH2OH, CH2-glycoside group, protected hydroxymethyl), 3-R7 (OH, NH2, N3, OH, NH2

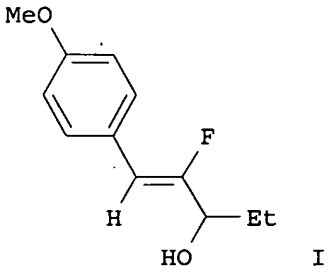
or protected hydroxy or amino), 1-RB (H, OH or protected hydroxy)] for use in the preservation of biol. materials and in cryosurgery. Thus, glycopeptide I was prepared by a multistep sequence starting from Me D-galactopyranoside and studied for its effect on the preservation of HEK 293 kidney cells and blood platelets.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2005:1174321 CAPLUS
DN 144:23056
TI Addition of ethyl bromo-difluoro-acetate to lactones: Reactivity and stereoselectivity
AU Cuenca, Ana B.; D'Hooge, Francois; Gouge, Vanessa; Castelot-Deliencourt, Geraldine; Oulyadi, Hassan; Leclerc, Eric; Jubault, Philippe; Pannecoucke, Xavier; Quirion, Jean-Charles
CS IRCOF, LHO, UMR CNRS 6014, Universite et INSA de Rouen, Rue Lucien Tesniere, Mont-Saint-Aignan, 76131, Fr.
SO Synlett (2005), (17), 2627-2630
CODEN: SYNLES; ISSN: 0936-5214
PB Georg Thieme Verlag
DT Journal
LA English
OS CASREACT 144:23056
AB Reformatsky-type addns., under various metal-mediated activation, of Et bromo-difluoro-acetate toward a series of un-activated lactones and various sugar lactones proceeded with medium to good yields and in a completely diastereoselective manner.

RE.CNT 61 THERE ARE 61 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2005:89106 CAPLUS
DN 142:316458
TI A novel diastereoselective synthesis of (Z)-fluoroalkenes via a Nozaki-Hiyama-Kishi-Type reaction
AU Dutheuil, Guillaume; Lei, Xinsheng; Pannecoucke, Xavier; Quirion, Jean-Charles
CS IRCOF, UMR CNRS6014, INSA de ROUEN, Mont Saint-Aignan, 76131, Fr.
SO Journal of Organic Chemistry (2005), 70(5), 1911-1914
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 142:316458
GI

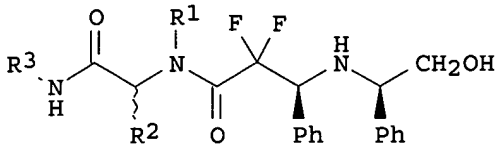


I

AB A highly diastereoselective and straightforward synthesis for (Z)-2-fluoroallylic alcs., e.g., I, by a Nozaki-Hiyama-Kishi-type reaction with the corresponding bromofluoroalkenes was developed, providing an easy

access to highly interesting fluorinated synthons.
RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2003:1001888 CAPLUS
DN 140:236082
TI Synthesis of difluorinated pseudopeptides using chiral α,α-difluoro-β-amino acids in the Ugi reaction
AU Gouge, Vanessa; Jubault, Philippe; Quirion, Jean-Charles
CS IRCOF, Laboratoire d'Heterochimie Organique associe au CNRS, INSA de Rouen, Mont Saint-Aignan, 76821, Fr.
SO Tetrahedron Letters (2004), 45(4), 773-776
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science B.V.
DT Journal
LA English
OS CASREACT 140:236082
GI



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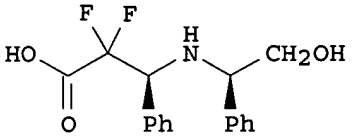

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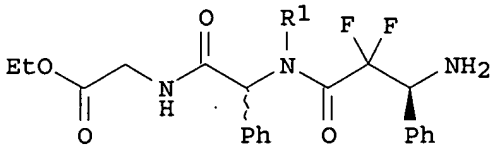


III

AB 2,2-Difluoro-3-(2-hydroxy-1 R-phenylethylamino)-3 S-phenylpropionic acid II, obtained by a Reformatsky-type reaction of Et bromodifluoroacetate with (4R)-2,4-diphenyloxazolidine, was used as a classical carboxylic acid in the Ugi reaction to prepare various difluorinated pseudopeptides I [R1 = CH2Ph, Ph, 2-BocNH-C6H4; R2 = Ph, (CH2)4Me, trans-PhCH:CH, 4-Pyridyl, R3 = CH2CO2Et, 2-C6H4CH2OTBS; Boc = tert-butoxycarbonyl, TBS = tert-butyldimethylsilyl]. Compds. I were then deprotected by hydrogenolysis to furnish difluorinated pseudopeptides III (R1 = CH2Ph, CH2CO2H).
RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1999:720258 CAPLUS
DN 132:35454
TI Enantioselective synthesis of α,α- difluoro -β-amino acid and 3,3-difluoroazetidin-2-one via the Reformatskii-type reaction of ethyl bromodifluoroacetate with chiral

1,3-oxazolidines
AU Marcotte, Stephane; Pannecoucke, Xavier; Feasson, Christian; Quirion, Jean-Charles
CS Laboratoire d'Heterochimie Organique associe au CNRS IRCOF, INSA et Universite de Rouen, Mont-Saint-Aignan, 76131, Fr.
SO Journal of Organic Chemistry (1999), 64(23), 8461-8464
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 132:35454
AB Chiral oxazolidines can be diastereoselectively alkylated with BrCF2CO2Et to furnish 3,3-difluoroazetidin-2-ones with up to 99% de. Selective cleavage of the chiral appendage provided the corresponding unsubstituted azetidinones. Formation of optically pure α,α-difluoro-β-amino acids can be achieved by acidic hydrolysis of N-vinyl-azetidin-2-ones.
RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s Panecoucke Xavier/AU
L8 0 PANECOUCKE XAVIER/AU

=> s D'Hooge Francois/AU
MISMATCHED QUOTE 'D'HOOGE'
Quotation marks (or apostrophes) must be used in pairs,
one before and one after the expression you are setting
off or masking.

=> s Hiige Francois/AU
L9 0 HIIGE FRANCOIS/AU

=> s Hooge Francois/AU
L10 0 HOOGE FRANCOIS/AU

=> s Marcotte Stephane/AU
L11 5 MARCOTTE STEPHANE/AU

=> dis l11 1-5 bib abs

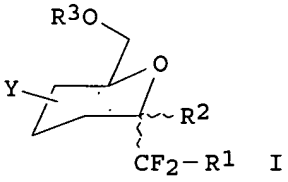
L11 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2006:428106 CAPLUS
DN 145:103904
TI Total synthesis of malayamycin A and analogs
AU Hanessian, Stephen; Marcotte, Stephane; Machaalani, Roger; Huang, Guobin; Pierron, Julien; Loiseleur, Olivier
CS Department of Chemistry, Universite de Montreal, Montreal, QC, H3C 3J7, Can.
SO Tetrahedron (2006), 62(22), 5201-5214
CODEN: TETRAB; ISSN: 0040-4020
PB Elsevier B.V.
DT Journal
LA English
OS CASREACT 145:103904
AB The total synthesis of the bicyclic C-nucleoside malayamycin A is described starting with D-ribonolactone. A new method was developed to obtain preparatively important quantities of β-pseudouridine, which was used as an intermediate. The synthesis of a carba N-nucleoside analog of malayamycin A is also described.
RE.CNT 83 THERE ARE 83 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

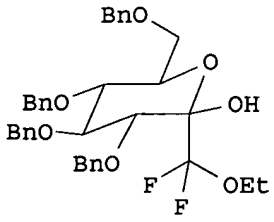
AN 2004:80195 CAPLUS
DN 140:128606
TI Preparation of gem difluorinated glycoconjugates as potential antitumor, antiviral, hypoglycemic prodrug agents
IN Quirion, Jean Charles; Pannecoucke, Xavier; D. Hooge, Francois; Marcotte, Stephane
PA Institut National des Sciences Appliquees de Rouen INSA, Fr.
SO Fr. Demande, 27 pp.
CODEN: FRXXBL
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2842810	A1	20040130	FR 2002-9627	20020725
	FR 2842810	B1	20060127		
	CA 2492940	A1	20040219	CA 2003-2492940	20030723
	WO 2004014928	A2	20040219	WO 2003-FR2330	20030723
	WO 2004014928	A3	20040401		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003274202	A1	20040225	AU 2003-274202	20030723
	EP 1525208	A2	20050427	EP 2003-758183	20030723
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	BR 2003012917	A	20050705	BR 2003-12917	20030723
	CN 1671723	A	20050921	CN 2003-817770	20030723
	JP 2006508048	T	20060309	JP 2004-526949	20030723
	US 2006142206	A1	20060629	US 2005-522365	20050921
PRAI	FR 2002-9627	A	20020725		
	WO 2003-FR2330	W	20030723		

OS CASREACT 140:128606; MARPAT 140:128606
GI



I



II

AB Gem difluorinated glycoconjugates I, wherein R1 is an aldehyde, acid, ester, alkyl, hydroxy, amine, amide; R2 is H, free or protected function alc.; R3 is protecting group; Y is alkoxy, amine, thioalkyl, were prepared via condensation of lactone sugar with bromodifluoromethylcarboxylate in the presence of zinc or of a derivative lanthanide and used as antitumor, antiviral, hypoglycemic prodrug agents (no data). Thus, glycoconjugate II was prepared in 68 % yield via condensation of the corresponding sugar lactone with BrCF2CO2Et in presence of zinc.

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2003:805261 CAPLUS
DN 140:28013
TI Total Synthesis and Structural Confirmation of Malayamycin A: A Novel Bicyclic C-Nucleoside from Streptomyces malaysiensis
AU Hanessian, Stephen; Marcotte, Stephane; Machaalani, Roger; Huang, Guobin
CS Department of Chemistry, Universite de Montreal, Montreal, QC, H3C 3J7, Can.
SO Organic Letters (2003), 5(23), 4277-4280
CODEN: ORLEF7; ISSN: 1523-7060
PB American Chemical Society
DT Journal
LA English
OS CASREACT 140:28013
AB The stereocontrolled synthesis of malayamycin A, a novel naturally occurring bicyclic C-nucleoside of the perhydrofuropyran type, is described.
RE.CNT 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2001:362036 CAPLUS
DN 135:107541
TI Synthesis of 3'-deoxy-3'-difluoromethyluridine and 2'-deoxy-2'-difluoromethyluridine
AU Marcotte, Stephane; Gerard, Baudoin; Pannecoucke, Xavier; Feasson, Christian; Quirion, Jean-Charles
CS Laboratoire d'Heterochimie Organique associe au CNRS, IRCOF, INSA et Universite de Rouen, Mont Saint-Aignan, 76821, Fr.
SO Synthesis (2001), (6), 929-933
CODEN: SYNTBF; ISSN: 0039-7881
PB Georg Thieme Verlag
DT Journal
LA English
OS CASREACT 135:107541
AB The synthesis of 3'-deoxy-3'-difluoromethyluridine and 2'-deoxy-2'-difluoromethyluridine by hydrogenation of the corresponding difluoromethylene derivs. is described. A second synthesis of the latter has been performed. Starting from thymidine, a two-step procedure affords the benzylated furanoid glycal. Addition of dibromodifluoromethane gives the α-2'-deoxy-2'-bromodifluoromethylarabinose. This compound allowed an access to α- or β-2'-deoxy-2'-difluoromethyluridine via a SN2 type reaction on a α-halodeoxyarabinose species.
RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1999:720258 CAPLUS
DN 132:35454
TI Enantioselective synthesis of α,α-difluoro-β-amino acid and 3,3-difluoroazetidin-2-one via the Reformatskii-type reaction of ethyl bromodifluoroacetate with chiral 1,3-oxazolidines
AU Marcotte, Stephane; Pannecoucke, Xavier; Feasson, Christian; Quirion, Jean-Charles
CS Laboratoire d'Heterochimie Organique associe au CNRS IRCOF, INSA et Universite de Rouen, Mont-Saint-Aignan, 76131, Fr.
SO Journal of Organic Chemistry (1999), 64(23), 8461-8464
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal

LA English
OS CASREACT 132:35454
AB Chiral oxazolidines can be diastereoselectively alkylated with BrCF2CO2Et to furnish 3,3-difluoroazetidin-2-ones with up to 99% de. Selective cleavage of the chiral appendage provided the corresponding unsubstituted azetidinones. Formation of optically pure α,α-difluoro-β-amino acids can be achieved by acidic hydrolysis of N-vinyl-azetidin-2-ones.
RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s Godefroy-Deliencourt-Castelot Geraldine/AU
L12 0 GODEFROY-DELIENCOURT-CASTELOT GERALDINE/AU

=> s Jubault Philippe/AU
L13 21 JUBAULT PHILIPPE/AU

=> s l13 and (fluoro or difluoro)
97454 FLUORO
4 FLUOROS
97457 FLUORO
(FLUORO OR FLUOROS)
14434 DIFLUORO
L14 5 L13 AND (FLUORO OR DIFLUORO)

=> dis l14 1-5 bib abs

L14 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2006:1198032 CAPLUS
TI Efficient synthesis of fluoro alkenes via diethylzinc-promoted Wittig reaction
AU Zoute, Ludivine; Dutheuil, Guillaume; Quirion, Jean-Charles; Jubault, Philippe; Pannecoucke, Xavier
CS IRCOF, LHO, UMR CNRS 6014, Universite et INSA de Rouen, Mont-Saint-Aignan, 76131, Fr.
SO Synthesis (2006), (20), 3409-3418
CODEN: SYNTBF; ISSN: 0039-7881
PB Georg Thieme Verlag
DT Journal
LA English
AB The synthesis of α-fluoroacrylates and α-bromo α-fluoro alkenes was achieved in very good yields using aldehydes and ketones, PPh3, ZnEt2 as promoter, and Et dibromofluoroacetate or tribromofluoromethane, resp. A change in the addition sequence was critical in order to obtain exclusively α-fluoroacrylates in good yields.
RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

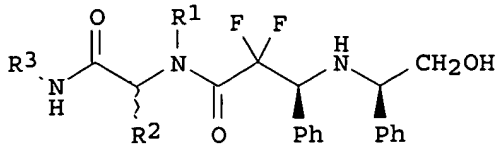
L14 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2006:1048369 CAPLUS
DN 146:81364
TI Phosphonium supported triphenylphosphine reagent: An improved access to α- fluoro α,β-unsaturated esters
AU Zoute, Ludivine; Lacombe, Celine; Quirion, Jean-Charles; Charette, Andre B.; Jubault, Philippe
CS Laboratoire d'Heterochimie Organique associe au CNRS, IRCOF, INSA et Universite de Rouen, Mont Saint-Aignan, 76821, Fr.
SO Tetrahedron Letters (2006), 47(45), 7931-7933
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Ltd.
DT Journal
LA English
AB α- Fluoro α,β-unsatd. esters were efficiently

synthesized via Et2Zn-promoted Wittig reaction using a phosphonium-supported solubility-support group SCG-PPh3, 3-Ph2PC6H4PPh3ClO4, which possesses similar reactivity as PPh3. The main advantage of this system is the use of a novel low-mol.-weight support that is soluble in solvents of medium polarities for the attachment of reagents and insol. in solvents of low polarities.

RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2005:1174321 CAPLUS
DN 144:23056
TI Addition of ethyl bromo-difluoro-acetate to lactones: Reactivity and stereoselectivity
AU Cuenca, Ana B.; D'Hooge, Francois; Gouge, Vanessa; Castelot-Deliencourt, Geraldine; Oulyadi, Hassan; Leclerc, Eric; Jubault, Philippe; Pannecoucke, Xavier; Quirion, Jean-Charles
CS IRCOF, LHO, UMR CNRS 6014, Universite et INSA de Rouen, Rue Lucien Tesniere, Mont-Saint-Aignan, 76131, Fr.
SO Synlett (2005), (17), 2627-2630
CODEN: SYNLES; ISSN: 0936-5214
PB Georg Thieme Verlag
DT Journal
LA English
OS CASREACT 144:23056
AB Reformatsky-type addns., under various metal-mediated activation, of Et bromo-difluoro-acetate toward a series of un-activated lactones and various sugar lactones proceeded with medium to good yields and in a completely diastereoselective manner.
RE.CNT 61 THERE ARE 61 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2003:1001888 CAPLUS
DN 140:236082
TI Synthesis of difluorinated pseudopeptides using chiral α,α-difluoro-β-amino acids in the Ugi reaction
AU Gouge, Vanessa; Jubault, Philippe; Quirion, Jean-Charles
CS IRCOF, Laboratoire d'Heterochimie Organique associe au CNRS, INSA de Rouen, Mont Saint-Aignan, 76821, Fr.
SO Tetrahedron Letters (2004), 45(4), 773-776
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science B.V.
DT Journal
LA English
OS CASREACT 140:236082
GI



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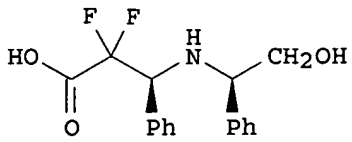

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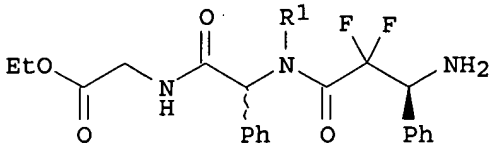


III

AB 2,2-Difluoro-3-(2-hydroxy-1 R-phenylethylamino)-3 S-phenylpropionic acid II, obtained by a Reformatsky-type reaction of Et bromodifluoroacetate with (4R)-2,4-diphenyloxazolidine, was used as a classical carboxylic acid in the Ugi reaction to prepare various difluorinated pseudopeptides I [R1 = CH2Ph, Ph, 2-BocNH-C6H4; R2 = Ph, (CH2)4Me, trans-PhCH:CH, 4-Pyridyl, R3 = CH2CO2Et, 2-C6H4CH2OTBS; Boc = tert-butoxycarbonyl, TBS = tert-butyldimethylsilyl]. Compds. I were then deprotected by hydrogenolysis to furnish difluorinated pseudopeptides III (R1 = CH2Ph, CH2CO2H).

RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

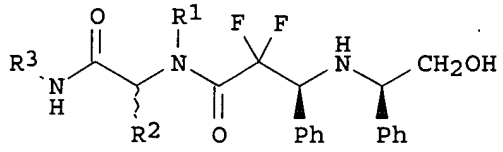
L14 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1995:915784 CAPLUS
DN 124:117432
TI Magnesium activation by electrochemistry. Application to the synthesis of gem-difluoroalkenes by an electrochemical Wittig reaction
AU Jubault, Philippe; Feasson, Christian; Collignon, Noel
CS Laboratoire dès composes organophosphores, INSA de Rouen, Mont-Saint-Aignan, 76131, Fr.
SO Bulletin de la Societe Chimique de France (1995), 132(8), 850-6
CODEN: BSCFAS; ISSN: 0037-8968
PB Elsevier
DT Journal
LA French
OS CASREACT 124:117432
AB The electrochem. reduction of bromodifluoromethyltris(dimethylamino)phosphoniu m tetrafluoroborate between a C felt cathode and a sacrificial Mg anode in DMF led to difluoromethylenetris(dimethylamino)phosphorane, which was reacted with aromatic or aliphatic aldehydes to give gem-difluoroalkenes in good yield. During these electrolyses, an electrochem. activation of the Mg anode occurred. This phenomenon significantly reduced the electrolysis time, owing to direct chemical reduction of the phosphonium salt at the surface of activated Mg rod.

=> s Gouge Vanessa/AU
L15 2 GOUGE VANESSA/AU

=> dis l15 1-2 bib abs

L15 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2005:1174321 CAPLUS
DN 144:23056
TI Addition of ethyl bromo-difluoro-acetate to lactones: Reactivity and stereoselectivity
AU Cuenca, Ana B.; D'Hooge, Francois; Gouge, Vanessa; Castelot-Deliencourt, Geraldine; Oulyadi, Hassan; Leclerc, Eric; Jubault, Philippe; Pannecoucke, Xavier; Quirion, Jean-Charles
CS IRCOF, LHO, UMR CNRS 6014, Universite et INSA de Rouen, Rue Lucien Tesniere, Mont-Saint-Aignan, 76131, Fr.
SO Synlett (2005), (17), 2627-2630
CODEN: SYNLES; ISSN: 0936-5214
PB Georg Thieme Verlag
DT Journal
LA English
OS CASREACT 144:23056
AB Reformatsky-type addns., under various metal-mediated activation, of Et bromo-difluoro-acetate toward a series of un-activated lactones and various sugar lactones proceeded with medium to good yields and in a completely diastereoselective manner.
RE.CNT 61 THERE ARE 61 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2003:1001888 CAPLUS
DN 140:236082
TI Synthesis of difluorinated pseudopeptides using chiral α,α-difluoro-β-amino acids in the Ugi reaction
AU Gouge, Vanessa; Jubault, Philippe; Quirion, Jean-Charles
CS IRCOF, Laboratoire d'Heterochimie Organique associe au CNRS, INSA de Rouen, Mont Saint-Aignan, 76821, Fr.
SO Tetrahedron Letters (2004), 45(4), 773-776
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science B.V.
DT Journal
LA English
OS CASREACT 140:236082
GI



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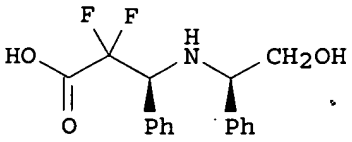

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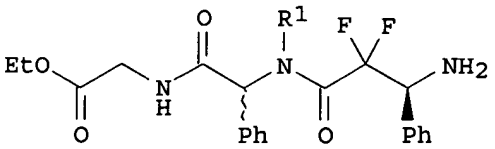

III

AB 2,2-Difluoro-3-(2-hydroxy-1 R-phenylethylamino)-3 S-phenylpropionic acid II, obtained by a Reformatsky-type reaction of Et bromodifluoroacetate with (4R)-2,4-diphenyloxazolidine, was used as a classical carboxylic acid in the Ugi reaction to prepare various difluorinated pseudopeptides I [R1 = CH2Ph, Ph, 2-BocNH-C6H4; R2 = Ph, (CH2)4Me, trans-PhCH:CH, 4-Pyridyl, R3 = CH2CO2Et, 2-C6H4CH2OTBS; Boc = tert-butoxycarbonyl, TBS = tert-butyldimethylsilyl]. Compds. I were then deprotected by hydrogenolysis to furnish difluorinated pseudopeptides III (R1 = CH2Ph, CH2CO2H).

RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> dis hist

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L1 STRUCTURE UPLOADED
L2 1387 S L1 SSS FULL

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L4 1 S L2 AND (GEM(A)DIFLUOROMETHYLENE)
L5 7 S L2 AND (GLUCOSE OR GALACTOSE)
L6 99 S QUIRION JEAN-CHARLES/AU
L7 7 S L6 AND (FLUORO OR DIFLUORO)
L8 0 S PANECOUCKE XAVIER/AU
L9 0 S HIIGE FRANCOIS/AU
L10 0 S HOOGE FRANCOIS/AU
L11 5 S MARCOTTE STEPHANE/AU
L12 0 S GODEFROY-DELIENCOURT-CASTELOT GERALDINE/AU
L13 21 S JUBAULT PHILIPPE/AU
L14 5 S L13 AND (FLUORO OR DIFLUORO)
L15 2 S GOUGE VANESSA/AU